

CLAIMS

1. A device [110], comprising:
 - 2 a housing [155] having a first side [160] and an opposing second side [165],
 - 4 wherein the housing [155] comprises:
 - 6 an opening [170] extending from the first side [160] to the second side [165]; and
 - 8 multiple alignment pins [180] imbedded in the housing [155] and
 - 10 extending external to both first and second sides [160,165], wherein on
 - 12 the first side [160] the alignment pins [180] are capable of insertion into
 - 14 matching holes on an electronic probe [130], and wherein on the second side [165] the alignment pins [180] are capable of insertion into matching holes [185] on an electronic circuit assembly [120].
2. The device [110] as recited in claim 1, further comprising at least one
 - 2 fastener part [196] capable of attaching the electronic probe [130] to the housing [155].
3. The device [110] as recited in claim 2, wherein the fastener part [196]
 - 2 comprises a threaded screw hole [196] into which a screw [135] attached to the electronic probe [130] can be inserted.
4. The device [110] as recited in claim 1, wherein the at least one fastener
 - 2 part [196] comprises two fastener parts [196] .
5. The device [110] as recited in claim 4, wherein the fastener parts [196]
 - 2 each comprise a threaded screw hole [196] into which a screw [135]

attached to the electronic probe [130] can be inserted.

- 2 6. The device [110] as recited in claim 1, wherein the axis of each alignment
pin [180] is parallel to the axis of the opening [170].
- 2 7. The device [110] as recited in claim 1, wherein on the second side [165]
the alignment pins [180] are capable of attachment to the electronic
4 circuit assembly [120] following their insertion into the electronic circuit
assembly [120] matching holes [185].
- 2 8. The device [110] as recited in claim 7, wherein attachment of the
alignment pins [180] to the electronic circuit assembly [120] is effected
4 by soldering the alignment pins [180] into the electronic circuit assembly
[120] matching holes [185].
- 2 9. The device [110] as recited in claim 1, wherein the electronic circuit
assembly [120] is a printed circuit board [120].
- 2 10. The device [110] as recited in claim 1, wherein the multiple alignment
pins [180] comprise four alignment pins [180].
- 2 11. The device [110] as recited in claim 1, further comprising:
4 a first key [175], wherein when the first key [175] is aligned with a
matching geometry on the electronic probe [130], entry of the electronic
6 probe [130] into the opening [170] is enabled, otherwise entry is
prevented.
- 2 12. The device [110] as recited in claim 1, further comprising:

4 a second key [190], wherein when the second key [190] is aligned with a
matching geometry [195] on the electronic circuit assembly [120],
attachment of the device [110] to the electronic circuit assembly [120] is
6 enabled, otherwise such entry is prevented.

13. The device [110] as recited in claim 12, wherein the second key [190] is
2 an additional pin [190] imbedded in the housing [155] and extending
external to the second side [165] and wherein the matching geometry
4 [195] on the electronic circuit assembly [120] is a hole [195] into which
the additional pin [190] is capable of insertion.

14. The device [110] as recited in claim 12, further comprising:
2
a first key [175], wherein when the first key [175] is aligned with a
4 matching geometry on the electronic probe [130], entry of the electronic
probe [130] into the opening [170] is enabled, otherwise entry is
6 prevented.

15. The device [110] as recited in claim 14, further comprising at least one
2 fastener part [196] capable of attaching the electronic probe [130] to the
housing [155].

16. The device [110] as recited in claim 15, wherein the fastener part [196]
2 comprises a threaded screw hole [196] into which a screw [135] attached
to the electronic probe [130] can be inserted.

17. The device [110] as recited in claim 14, wherein on the second side [165]
2 the alignment pins [180] are capable of attachment to the electronic
circuit assembly [120] following their insertion into the electronic circuit
4 assembly [120] matching holes [185].

- 2 18. The device [110] as recited in claim 17, wherein attachment of the
alignment pins [180] to the electronic circuit assembly [120] is effected
by soldering the alignment pins [180] into the electronic circuit assembly
4 [120] matching holes [185].
- 2 19. The device [110] as recited in claim 14, wherein the electronic circuit
assembly [120] is a printed circuit board [120].
- 2 20. The device [110] as recited in claim 14, wherein the multiple alignment
pins [180] comprise four alignment pins [180].